

STAR



STE0002

Hand Held
Servo Valve Tester

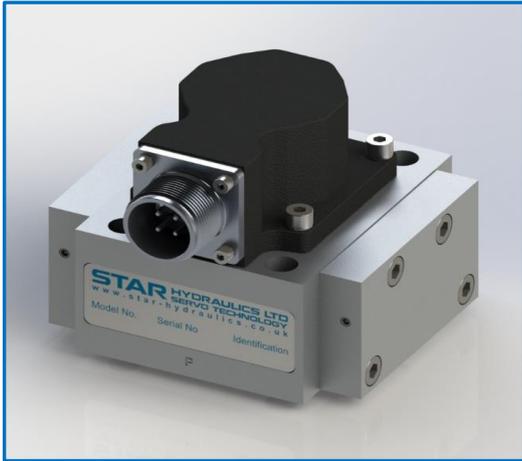


Star Hydraulics Limited
Severn Drive
Tewkesbury Business Park
Tewkesbury
Gloucestershire
GL20 8SF
England (UK)

www.star-hydraulics.co.uk

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STE0002 Hand Held Tester - Function / Operation



This device is designed to operate 2-stage (pilot operated) servo valves with double coils with an amphenol connector P/N: MS3102-14S-2P.

CAUTION - Disconnecting the servo valve drive within closed loop circuits when the system is powered up could lead to instantaneous movements of the actuator. Power down the hydraulics before disconnecting any of the closed loop elements.

CAUTION - When inputting signals to a hydraulic control valve very high forces and speeds may be applied to the actuator that could lead to personal injury or damage to machinery. Consider reducing the hydraulic supply pressure to limit force and fluid velocities.

Ensure the valve coil resistances are correct and the coils connected to the appropriate electrical connector pins i.e. nominal resistance should be seen across pins A - B and pins C - D. The mating connector on this device is shorted across pins B - C so that the coils are driven series aiding.

Before connecting set the RANGE pot fully CCW and the ADJUST pot at the 12 o'clock position, this will ensure the output signal is as low as possible.

Connect the tester to the servo valve.

Once the ON/OFF button is depressed signal will be delivered to the servo valve coils and a value displayed on the screen.

- ADJUST pot controls signal amplitude and polarity.
- RANGE pot controls peak amplitude.
- NORM / REV button will apply an instantaneous change in signal polarity.

Most servo valves used in closed loop control have no positive overlap on the spool and so it will be almost impossible to obtain a static condition at the actuator and drift will occur.

If the servo valve is functioning correctly you should be able to observe consistent changes in actuator speed in relation to changes to the manually applied signals.

If no value is displayed then there is likely to be a fault with one or both coils or connections.

Technical Data:

Output	100 mA into 60 ohms 15 mA into 400 ohms
Supply	2 x PP3 batteries (supplied not fitted) or 230 Vac mains adaptor (inc.)
Dimensions	150mm x 80mm x 50mm
Weight	400 g (inc. batteries)
Conforms to	2006/95/EC 2014/30/EU EN61000-6-3 EN61000-6-2

